

good cheese, admits it and doesn't care who knows it. Some well-satisfied customers even went so far as to tell him his American Swiss cheese was better Swiss cheese than Swiss Swiss

Chris had a bright idea one day. He decided to find out just how much better was his American Swiss cheese than the Swiss Swiss cheese. So he wrote to Switzerland and ordered the very best Swiss cheese that could be had.

In due time the Swiss Swiss cheese arrived in Monroe. Chris, all impatience, made haste to open the shipment. Voluminous wrappings were removed one by one and at last the very best Swiss Swiss cheese was revealed in all its beauty. And on it was stamped the familiar

Chris Roth, Monroe, Green County, Wis.,

By FRANK GEORGE.

EFORE this article was written some fifty persons were asked:

"Why are there holes in a Swiss cheese?" A few of them said it was a profiteering dodge to cheat the public. Others admitted they didn't know; while some voiced the opinion that to punch a lot of holes in a cheese of a procedure.

Of course a great many people know that the holes are there for a very good reason; that they are associated with good flavor. Without those holes there would not be any Swiss cheese that amounted to anything. But American scientists have racked their brains for years trying to learn how to manufacture holes comparable to those found in the finest products from Switzerland. They experimented and experimented. But it was no go. They could make small holes, yes, but the right kind of holes, holes that produce a cheese with a sweet, nutty flavor, were as

elusive as a fox. The scientists visited the greatest Swiss-cheese producing section of the United States. During the year 1845, 27 Swiss families had migrated to the United States with a view to launching the manufacture of Swiss cheese in this country. These people examined several locations, and finally settled in the hills of Green county, Wisconsin. It was here, in the first can of milk manufactured into a miniature Swiss cheese, that the American Swiss-cheese industry was born.

But when these Swiss people were questioned regarding their art they could tell nothing. From a scientific standpoint they no more knew what produced the holes in a Swiss cheese than did the writer of this article before he investigated the matter. If the cheese was good, they knew that they had made it so by the way they handled the curd; if it was poor, the farmers knew that they had not fed the cows, properly. But in this blue-grass region of the state of Wisconsin, underlaid with limestone, they recognized conditions similar to those in their own native alps, and for that reason favorable to the manufacture of a fair-enough kind of product.

Then the scientists went to Switzerland and tried to wheedle the secret out of the originators. But even there in the Emmental, the home of the Swiss cheese, the best-informed worker did not know the scientific principles involved. In fact, no one in Switzerland knew. The worker informed the scientists that he learned the trade from his father, and knew simply that if he did a certain thing to some gallons of milk and placed the result in a cellar a Swiss cheese would be produced that was considered to be the best cheese manufactured anywhere in the world.

Finding the Right "Bug." The scientists returned to America no better informed than they were before. But they would not admit defeat. First of all they extracted nil the bacteria that could be found in an imported Swiss cheese. There were thousands of different kinds of "bugs." Using a process of elimination they experimented with each "bug" in turn. This took some twelve years. And after it was all over, the identity of the particular "bug" that produced the hole in the cheese was still undisclosed.

Then the scientists connected with the dairy division. United States Department of Agricultore, concluded that although the proper bacteria had been experimented with, a different medium

MARING HOLES IN ROQUEFORT

should be used. And sure enough, when they prepared a medium that suited them and tried a certain one of the thousands of bacteria upon it,

Consider what this discovery means to the American people. We are habitual consumers of such a vast quantity of Swiss cheese as to make necessary the importation of 20,000,000 pounds of it in a year. Why should not that demand be met with home-grown products? A few years ago it might have been argued that nothing was comparable to the cheese made in Switzerland. But not so now. In fact, many Swiss cheese experts have stated that the Swiss cheese now being manufactured at Grove City, Pa., under the supervision of the dairy division of the Department of Agriculture, is as good as the imported article, if not better.

At present some 20,000,000 pounds of Swiss cheese are produced in this country annually. Regrettably, too much of it is of mediocre quality. But with the application of the methods perfected by the dairy division, which make it possible to control the factors influencing ripening and flavor, it is confidently felt that the day is not far off when all of the domestic Swiss cheese will be of high quality, and that the supply will be adequate at least to satisfy the tastes of Ameri-

cans who now prefer the imported article. Already two carloads of American-made Swiss cheese have been exported to Switzerland-sent right into the country where Swiss cheese making has been the leading industry for more than five centuries. That is a real instance of carrying coals to Newcastle. And the Swiss people are finding that the coals are hot, for they are shrewd enough to perceive that now that America can manufacture the finest grades of Swiss cheese, Switzerland has a real competitor in the Swiss cheese-making industry.

The quality of Swiss cheese from a commercial standpoint is graded by the size, number and uniformity of the holes. Cheese that has a number of small holes (" no holes at all is of inferior grade. Pinholes are the result of the use of poor grades of milk, improper handling, or lack of cultures. Some of these defects are overcome by the use of certain kinds of bacteria kept in pure culture, particularly where the cheese is gassy or "niszler." The discovery of these bacteria was first made in the laboratory of the dairy division. The holes and flavor in Swiss cheese are developed by the use of another culture, an organism also discovered by the dairy division experts.

The Secret of Roquefort. Now consider what dairy division experts have accomplished with another cheese, the Roquefort -a cheese that grows better, the older it becomes It is difficult to imagine that two rational hu-

man beings would fight a duel over a piece of Roquefort cheese, yet some family writings are extant to that effect. However, these letters can scarcely be regarded as an accurate record, inasmuch as the author of them was a nimble minded person more famed for his inventive genius than for his adherence to the truth. Roquefort cheese, however, has been known for 20 centuries, and being considered the "king of all cheese" during most of that time, it is within the realm of possibility that not only one but several duels have been fought over it. Indeed, one might find after sufficient search that several wars

have been waged in its behalf. For centuries Roquefort cheese has been made from sheep's milk by peasants of southern France, and ripened in the famous caves of Roquefort. Within a radius of 100 miles of Roquefort, half a million sheep are pastured for the purpose of milk production. During the one six-months' period of lactation, some of these sheep produce enough milk to make as much as 50 pounds of cheese. The cheese is manufactured on farms and in small factories throughout the region, and then sent to Roquefort to be cured in the caves. Several firms fiere located and consolidated control the world's supply of Roquefort cheese.

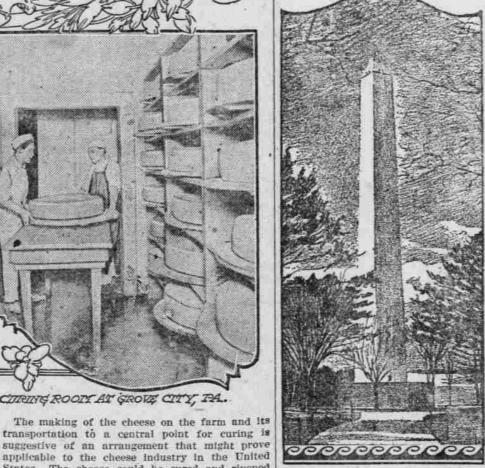
Washington Shaft Country's Tribute to Her Great Son

The two great monuments in the United States, of the many hundreds that have been erected in all parts of our country, are the Bunker Hill monument, in Boston, dedicated in 1843, a shaft to commemorate the beginning of our fight for independence, and the Washington monument, at Washington, erected to the memory of him who had been most instrumental in bringing about the result.

For 30 years after Washington's death the project was, every now and then, suggested, but nothing definite happened until September, 1833, when the Washington National Monument societys was formed, with Chief Justice John Marshall, then 73 years old, as president. It was not until three years later that advertisements were inserted inviting designs from Ameri-

An effort was made to secure the funds by popular subscription and by 1847 \$87,000 was in hand and preparation for construction was begun. Congress, by resolution, granted a site where the monument now stands and the cornerstone was laid on the Fourth of July, 1848, in the presence of the executive, legislative and judicial branches of the government, foreign ministers and officers and a vast conourse of citizens from all parts of the The work of erection progressed

stendily until 1854, when the shaft had reached a height of 156 feet and had



Washington Monument, the City's Focusing Point, Is No Less a Proof Greater Significance.

have been formed by the slipping of the rocks at the base of the Cambalou mountains. Among clety now being exhausted, a memo- Lawrence, made their home with their them are subterranean grottoes and galleries rial was presented to congress asking famous uncle at Mount Vernon at difthrough which currents of cool, moist air circulate it to take action in the matter. Poli- ferent times. Another nephew, Bushwith great rapidity, and through which tiny ties in the government prevented a rod, a son of Washington's brother, ready response and it was not until John Augustine, was an especial fa-1859 that the society was given a for- vorite. His career as a lawyer was mal charter. often lowered to 40 degrees F. Many of the caves

finally finished in the winter of 1884 and frequently consulted him on legal 85, and it was decided to dedicate it matters. The Mount Vernon mansion upon the anniversary of the birth of its library and private papers and the man to whom it had been erected. 4,000 acres were left to this nephew. Consequently, on February 22, 1885, here were impressive ceremonies at the national capital, when the monunent was turned over to the nation.

The formal presentation of the monment was made at the base of the olas. grand obelisk, but owing to the raw, cold weather that existed the dedicaion ceremonies proper took place in the hall of the house of representa-

Lesson in Honors to Founders of Nation

It is always fitting that Washington's birthday should be made a spe-However, after years of experimental work, a cial occasion for impressing on all just special air-conditioning apparatus was perfectedwhat his achievements and those of an arrangement somewhat similar to that used his associates who established the govin silk mills-by means of which curing condiernment of the United States and tions could be secured and maintained, and which founded a nation really mean. While' were in fact quite comparable to the natural conthere has never been any lack of enditions that prevailed in the caves of Roquefort. thusiasm over the man who was first America had no Roquefort caves. Therefore it n war, first in peace and first in the was necessary to build something just as good. hearts of his countrymen, it is well And American scientists did it. Moreover, the that the full significance of what clus-French made Roquefort cheese from sheep's milk. ters about the name and fame of During the past year, by the use of the equip-Washington, shall be set out beyond ment mentioned, Roquefort cheese has been made all peradventure.

It is not only the uninformed allen in the United States, and marketed successfully who falls to understand our debt to the past, so, despite the highly intelsome critics have declared the cow's milk cheese | ligent and intensive efforts of the pubto be superior to the imported sheep's milk prod- lic schools to deal with Washington as the great national hero, the ex-The worst criticism of the domestic product traordinary nature of the government that has thus far been made is that the cheese of a people and by a people and for is too yellow. With some commercial experience a people which his efforts set up canwith the cheese there is every reason to believe not be too emphatically described, that in the future some improvements in manu- since we all tend to get rusty on his facture will be made so as to produce a cheese toric facts, and altogether too many more uniform and perfect, and that eventually forget that blatant idealistic reforma cow's-milk Roquefort cheese will become one ers the world over today are claiming of the established varieties of cheese in the United as freshly discovered panaceas some of the simplest practices laid down by the forefathers in the Mayflower,

the First Chief Executive

George Washington was inagurated first President of the United States April 25, 153, in New York city, which at that time was the federal capital. During the cremonies, the chancellor administered the outh with great deliberation and emphasis, after which Washington bowed down, seized the Bible, kissed it, and excitatined with closed eyes and much devolute. "I swear; so help me God!"

Thereupon the chancellor declared, "It is done," and turning to the crowd exclaimed. "Long live George Washington, President C'Long live George Washington, President of the United States!" The last named declaration on the part of the chancellor was in imitation of monarchical custom. The error of this practice was, however, soon exposed and abandoned, but at the time the crowd thought of nothing but the exciting solemnity of the scene, and many who demonstratively waved their hats were too overcome by emotion to join in the huzzas.

again in 1776, and finally in the Constitution of 1787. That the forefa thers, with Washington and Jefferson and Lee in the lead in the constructive period of the Revolution, proved to be practical men, as well as idealists believing in certain great principles that lie at the base of human reedom, and established human liberty under conditions that protected ich from the other, obliterating class listinctions, is not the least thing to their credit.

As pulpit and platform draw the essons from what the past affords in the way of men and principles as exemplars for all time, it will be the part of wisdom if the simple, undisputed facts as to what this great experiment did set out to do and has accomplished be brought home to all. For after all it is the overwhelming acmalities of a free government main ained by a free people that gives the uster to the name of Washington as the father and founder and justifies all that the most extravagant eulogy may pronounce as to his claims to an affectionate immortality.

His Fondness for Children. While Washington had no children of his own, he was blessed with many rephews and nieces, who, looking up ceived many favors from his hand. found Enigma Than the Sphinx, but His sister Betty, Mrs. Fleiding Lewis, had several boys, Washington, when nineteen, standing godfather to the cost \$300,000. The treasury of the so- eldest. Two of her boys, Howell and helped by Washington, who followed The Washington monument was it with the greatest pride and interest

Of his brother Samuel's chilgren Washington helped educate the three boys, and gave their sister Harriet a home under his own roof for nine years,-H. A. Ogden in St. Nich-

Spirit That Won Freedom. Let's try to learn, above everything else, how to fight, be beaten, fight again, and keep at it until at last we win.-George Washington.



Washington's Practical Side

Pretty pearly everybody has heard | and that he kept his crop accounts. most unheard-of cargo-each man two | Presently the men got up and went | The men seemed not to have the eagles! All, men and eagles alike, were off carrying their burdens, about forty least anxiety lest these fierce creaseated upon the ground when the very large eagles and forty smaller tures, with their powerful beaks, Stockholders in private banks in agricultural experts of his time; and tural affairs. dso wrote about agriculture to Thomas Jefferson, and others. The letters show that the Father of His Country vas a farmer in quite a modern sense,

TO THE FOREIGN LEGION.

No mortal time can make the spirit mut-

As symbol of our love, heroic band.
--Fanny De Groot Hastings.

that Washington was a farmer, but and knew what each field had done just how much of a farmer he was and was doing, with an exactness that has only recently been shown by the many a farmer today would find wise collection and publication of his agri- and profitable. It is evident, too, that cultural letters. Washington, it ap- Washington did not allow public afears, corresponded with Mr. Arthur fairs to prevent him from keeping in foung of England, one of the great close touch with his private agricul-Always a Practical Farmer,

George Washington was a good farmer. When he once needed a farm manager he described the man he wanted in a letter, as "above all, Midas like, one who can convert everything he touches into manure, as the first

Keen Insight Into Future. In a free and republican government you cannot restrain the voice of the multitude. Every man will speak as he thinks, or, more properly, without thinking, and consequently will judge of effects without attending to their causes.—George Washington,

"After Every Meal" Everywhere All over the world people use this goody for its benefits, as well as its CHICAGO pleasure. Keeps teeth clean, breath sweet, throat soothed. CALCUTTA Aids appetite

digestion. PARIS STILL 5C

Sealed Tight - Kept Right Thousands Happy Housewives Fertile Land at \$15 to \$30 an Acre to 45 bushels of wheat to the acre. Hundreds of farmers in Western Canada have raised crops in a single season worth more than the whole cost of their land. With such crops come prosperity, independence, good homes, and all the comforts and conveniences which make for hippy living. Farm Gardens-Poultry-Dairying

MONEY IN BREEDING MUSSELS | EVERYTHING WAS ALL RIGHT United States Fisheries Bureau Re- Judge Couldn't Be Spoiling the Water ports That a Profit May Confi-

dently Be Looked For. The business of breeding pearly nussels artificially has been carried in Australia by the lack of spring

dently promised. To produce in this way 1,000 baby they are full grown 13,000 of them precious. will weigh a ton. Thus the cost of A judge, on circuit, arriving at s

producing a ton of pearly mussels of bush shanty, asked for a bath. Such market size (if all survived) would a luxury was naturally refused, as be, as exactly reckoned, \$2.68. Assum- there was only a little water left at ing a loss of 50 per cent, the cost the bottom of the tank reserved for would be \$5.36. Pearly mussels occasionally yield "Quaint Acquaintances."

is the shells, utilizable for mother-of- could not be found, the landlord went The fisheries bureau has devoted its judge was bathing! attention wholly to the propagation of The landlord, justly furious, roundly

shells of which have at present time a market value of \$35 a ton. Giving Up. She-A woman has to give up a great deal after she gets married. He-A man does nothing else but

ton Transcript.

When He Didn't Use Any Soap in the Bath. A serious inconvenience is caused

so far by the United States fisheries water. The trouble is partly overbureaus that a money profit is confi- come by the use of huge tin tanks in which the rain is caught. Naturally, toward the breaking up mussels costs about 20 cents. When of the dry season, water becomes very

drinking purposes, says the author of

valuable pearls, but commercially it When dinner was ready, as the judge pearl, that are importantly to be con- to call him; whereupon a muffled voice issued from the tank, where the

superior varieties of mussels, the abused his guest. "Do not excite yourself," the latter observed, casually. "I am not spoiling the water, for I am not using any

A Good Many Like Him. Friend-"I read that book you illusgive up after he gets married-Bos- trated." Artist-"I didn't. How did the illustrations fit?"

The longer you boil POSTUM CEREAL the better it is

Toccane no accondante ne namento na marca a concentra no marca a concentra na marca de la concentra na marca del concentra na marca de la concentra na marca de la concentra na marca de la concentra na marca del concentra na marca de la concentra na marca del concentra na marca de la concentra na marca de la concentra na marca del concentra na marca de la concentra na marca del co

Your reward will be such richness of flavor as would please most coffee or tea drinkers.

This pure, wholesome cereal drink contains nothing harmful. Its regular use proves a comfort and an economy.

POSTUM CEREAL

"There's a Reason" Sold by grocers everywhere Made by Postum Cereal Co., Inc., Battle Creek Mich.

Traveled With Live Eagles

Chinese Traders, Apparently Without | ing what seemed to the Americans the Probably both stories were correct. Fear, Carried Flerce Birds, One on Each Shoulder.

During a journey from Peking to strangers first caught sight of them, ones. The smaller birds sat each upon should each take a nip out of the Kalgan, in China, some American en- and the men said they were taking the a basket dangling from the man's cheek nearest them as they went along. gineers were favored by a most ex- birds into Mongolia to recover their shoulder pole. Each basket was ap-

plumage, and that they were kept in parently full of something or other, the Near a beautiful temple they came Peking for the purpose of making Americans could not see what, but the upon a great company of men, carry- eagle-feather fans; but other people larger eagles sat on the poles at the Sweden must be natives of Sweden.

FRESHEN ROSES.

Roses will give much greater return If, before they are put into the water, the ends of the stems are crushed or mashed. Then when the rose wilts cut off the end of the stem, slit it in half for about one half inch, hold the ends in boiling water for a few minutes, then plunge the stems in cold water. The rose will be as fresh as new. Do In a deep pitcher of water all night before placing them in the vase,

Fools Made by Royal Whim of his person.

fools those who displeased him. Disciplining Those of His Court Who Displeased Him. Peter the Great was less successful instant of the publication of the de- sneered at, or the persons who heard as a jokesmith than he was as a ship- cree the unfortunate victim, no matter | would look at each other and laugh, this at night and let the roses stand wright. He seemed to concentrate his how intelligent he was, became the saying:

ever he said was spoken at the peril

told the Americans afterward that the other end, and it was amusing to see

birds were being taken to catch hares them turning round and balancing

and other game for their masters, and themselves and generally settling

possibly also to catch more eagles. themselves comfortably before setting

CURING ROOM AT GROVE CITY, PA.

The making of the cheese on the farm and its

suggestive of an arrangement that might prove

applicable to the cheese industry in the United

at less expense, and probably graded and mar-

keted to better advantage, than under our pres-

It is curious to note that the caves in France

streams thread their way. The air currents com-

ing in contact with the rocks produce rapid evap-

oration, as a result of which the temperature is

have been enlarged and artificial refrigeration

used for the purpose of storing and curing the

The secret of making a fine Roquefort cheese

sure, most people regard anything moldy as

turns upon the development of certain molds. To

unfit for use. But in this case the mold is not

harmful and must be present if good Roquefort

flavor is to be developed. For several years the

dairy division has been endeavoring to develop

In the first place, it was impossible to secure

employees familiar with the process of manufac-

ture. It is not sufficient, as some people believe,

to spripkle some green mold on the curd in order

to produce a Roquefort cheese. In the Nork of

the dairy division, for a long time the mold failed

to develop properly, and in many cases did not

develop at all. Special artificial curing condi

tions had to be supplied. Ordinary refrigeration

was not enough. To cure the cheese properly

required a very low temperature with high rei-

Make Our Own Caves.

nercially from cow's milk for the first time

in competition with the imported article. In fact,

ative humidity and considerable ventilation.

cheese at even lower temperatures.

a green-mold cheese from cow's milk.

States. The cheese could be cured and ripened

Such an offender might with impunity be kicked or horsewhipped by Russian Czar Had Novel Method of fools or of reducing to the state of any one of the court, and he had no chance to retaliate. Everything be For whenever a noble offended Pe- did was ridiculed, and whatever he ter, that noble, by an imperial order, said was treated as a great joke. If was denominated a fool. From the he were sarcastic his words were

Stockholders Must Be Natives.

wit upon one formula. Humor to him laughing stock of the entire court. "What a remarkable proof of unseemed to consist of making fun of He was permitted to talk, but what derstanding in a fool!"

A Legionaire was seen to salute the statue of Washington that stands on the transmutation toward gold." reasury steps.-The Reporter.

That moved you to so gallant a salute. It is a deathless spirit that makes one All fearless men like you and Washington. Accept the tribute of his outstreched